WHAT IS CLAIMED IS:

1. A height adjusting apparatus for a suction brush of an upright vacuum cleaner, comprising:

a suction brush body;

a height adjusting knob rotatably disposed at a seating portion formed in the suction brush body, and having a cam curve portion formed at a part of an end of the height adjusting knob inserted into the suction brush body, the cam curve portion having a height difference between a starting point and an end point thereof and a plurality of recessed grooves formed between the starting point and the end point;

a height adjusting shaft integrally formed with a rod member which is contacted with the cam curve portion and lifted up and down according to a rotational direction of the height adjusting knob; and

a brush front wheel rotatably coupled to the height adjusting shaft.

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2. The apparatus of claim 1, wherein the suction brush body comprises a brush frame which has a suction portion for sucking dust at a lower surface thereof and in which the height adjusting shaft is disposed; and a brush cover for sealing an upper surface of the brush frame except for the suction port.

- 3. The apparatus of claim 2, wherein the seating portion comprises a seating member disposed at the brush frame and a seating hole formed through the brush cover.
- 5 4. The apparatus of claim 3, wherein the sating member is partially cut away to form a space portion for allowing the seating member to be elastically deformed.
 - 5. The apparatus of claim 3, wherein the height adjusting knob comprises a cylindrical knob body; a handle portion formed at an upper surface of the knob body, for rotating the height adjusting knob; a flange portion protruded along an outer circumferential surface of the knob body, for deciding an inserting position of the knob body; a fixing protrusion seated in a fixing groove formed at an inner surface of the seating member, for procedurally controlling a rotation of the handle; and a cam curve portion rounded so that the recessed grooves are softly connected to each other.

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6. The apparatus of claim 5, wherein the fixing protrusion is protruded at a lower surface of the flange portion, and a surface of the fixing protrusion contacted with the fixing groove is rounded.

- 7. The apparatus of claim 5, wherein the multiple fixing grooves are formed in a length direction of the seating member to be apart from each other at regular intervals, and each fixing groove has a shape corresponding to the fixing protrusion.
- 5 8. The apparatus of claim 5, wherein the multiple fixing grooves has a number corresponding to the number of recessed grooves of the cam curve portion.
 - 9. The apparatus of claim 2, wherein the height adjusting knob is rotatably coupled to a shaft receiving groove formed a bottom surface of the brush frame.
 - 10. The apparatus of claim 9, wherein the shaft receiving groove is communicated with a front wheel receiving hole formed through the brush frame so that the front wheel is not interfered with the brush frame, and has a plurality of latching protrusions for preventing a separation of the height adjusting shaft.
 - 11. The apparatus of claim 9, wherein the height adjusting shaft comprises:
 - a shaft body connected at both ends with a brush front wheel;

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a rotary shaft connected at both ends to the shaft body, secured to the shaft receiving groove by a screw to rotate the height adjusting shaft; and

a reinforcing rib disposed between the shaft body and the rotary shaft to prevent the shaft body from twisting.

- 12. The apparatus of claim 11, wherein the shaft receiving groove is communicated with
 5 the front wheel receiving hole formed in the brush frame so that the front wheel is not interfered with the brush frame.
 - 13. The apparatus of claim 11, wherein the height adjusting shaft is made of an aluminum.